

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P943246

Luminaire Tested: **GALN-SB7C-850-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39954 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

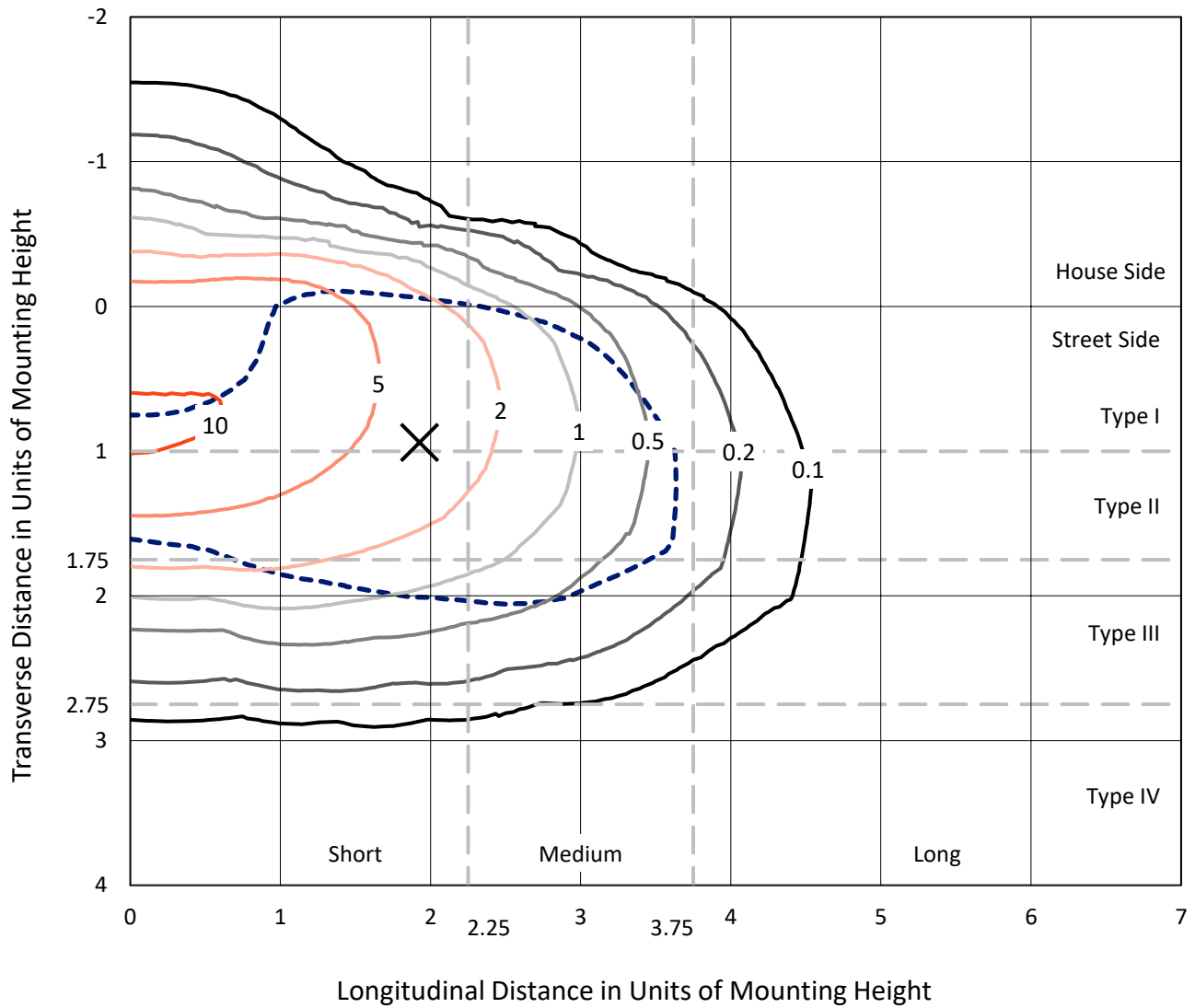
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

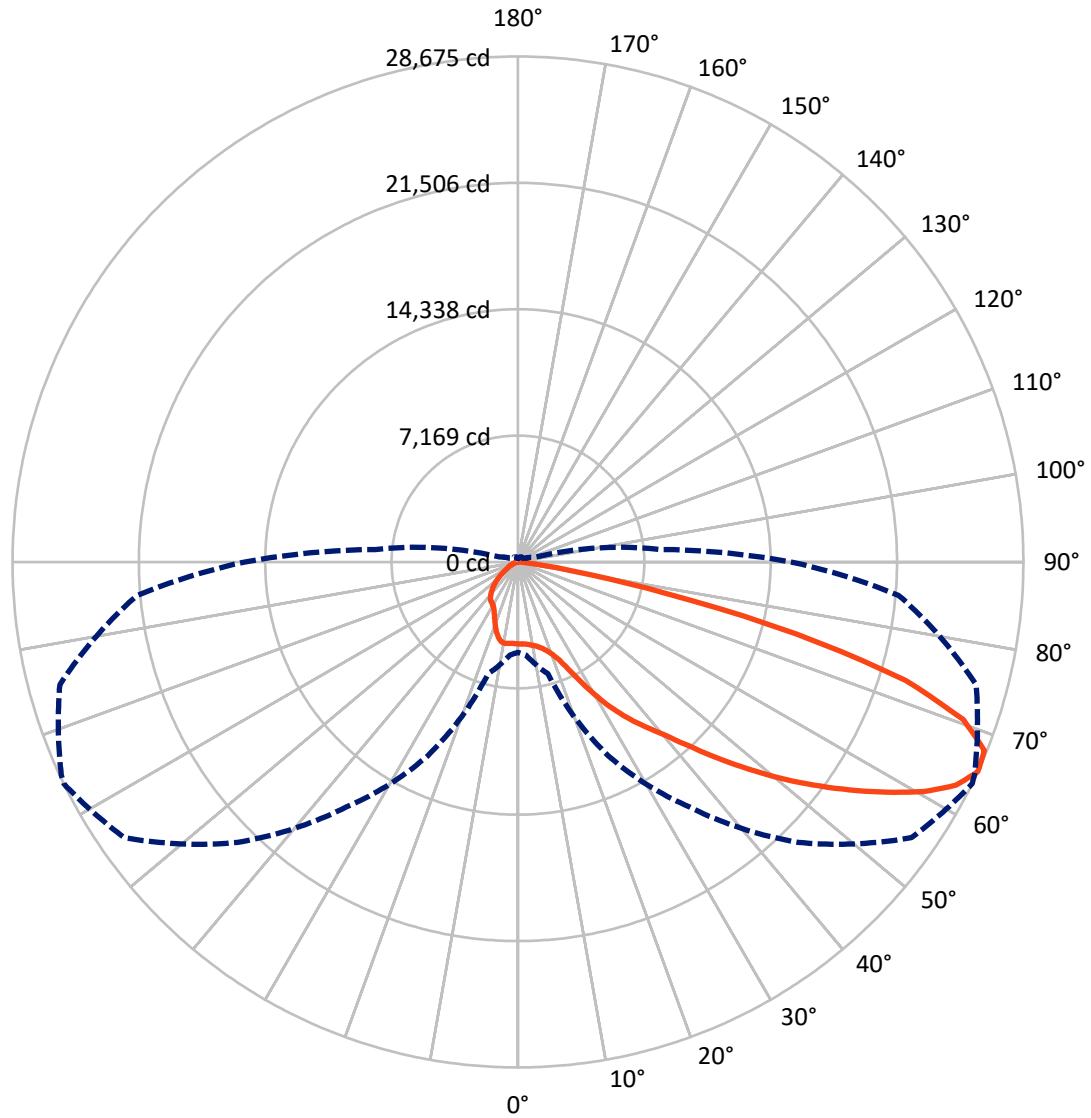
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5343.1	0.0	5343.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	34610.9	0.0	34610.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	39954.0	0.0	39954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.7	1.1
10°-20°	1162.9	2.9
20°-30°	2203.5	5.5
30°-40°	4458.9	11.2
40°-50°	7595.8	19.0
50°-60°	10329.6	25.9
60°-70°	9700.1	24.3
70°-80°	3886.3	9.7
80°-90°	188.3	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	39954.0	100.0
0°-180°	39954.0	100.0

Coefficient of Utilization



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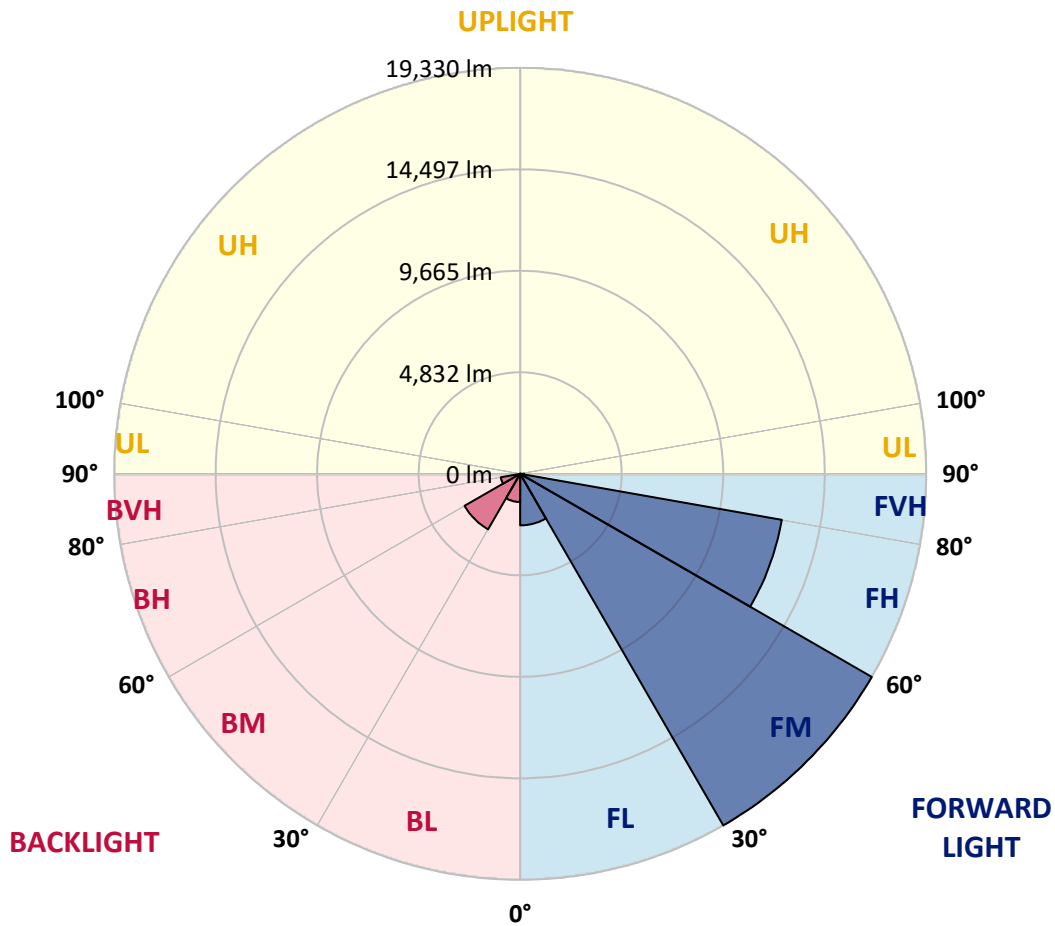
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2453.6	6.1			
FM (30°-60°)	19329.7	48.4			
FH (60°-80°)	12648.5	31.7			G5
FVH (80°-90°)	179.1	0.4			G2/225
BL (0°-30°)	1341.5	3.4	B3/2500		
BM (30°-60°)	3054.6	7.6	B3/5000		
BH (60°-80°)	937.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	9.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	4647.1	4647.1	4647.1	4647.1	4647.1	4647.1	4647.1	4647.1	4647.1	4647.1
2.5°	4631.0	4663.1	4655.1	4647.1	4644.4	4649.7	4652.4	4649.7	4649.7	4649.7
5°	4542.6	4569.4	4569.4	4588.1	4614.9	4647.1	4671.2	4676.5	4681.9	4689.9
7.5°	4373.9	4395.3	4411.4	4473.0	4539.9	4625.6	4698.0	4735.5	4740.8	4770.3
10°	4258.7	4285.5	4312.3	4376.5	4473.0	4601.5	4724.7	4815.8	4829.2	4898.8
12.5°	4253.3	4280.1	4314.9	4384.6	4497.1	4633.7	4783.7	4914.9	4939.0	5040.8
15°	4309.6	4341.7	4373.9	4459.6	4580.1	4746.2	4906.9	5070.3	5094.4	5239.0
17.5°	4424.8	4467.6	4491.7	4577.4	4706.0	4890.8	5102.4	5289.9	5311.3	5480.1
20°	4652.4	4703.3	4711.3	4781.0	4906.9	5105.1	5356.8	5589.9	5616.7	5809.5
22.5°	5123.8	5196.1	5131.9	5166.7	5279.2	5477.4	5750.6	6045.2	6082.7	6302.3
25°	5954.1	6055.9	5889.9	5830.9	5879.1	6085.4	6428.2	6800.5	6843.4	7020.1
27.5°	7585.3	7454.1	7202.3	6955.9	6811.2	6929.1	7314.8	7775.5	7829.0	8000.5
30°	9377.2	9262.0	8921.8	8375.4	8032.6	8013.8	8370.1	8884.3	8945.9	9109.3
32.5°	11171.7	11061.9	10692.3	10020.0	9425.4	9130.7	9377.2	9947.7	9979.8	10084.3
35°	12936.8	12824.3	12454.7	11766.3	11035.1	10365.5	10317.3	10960.1	10970.8	11080.6
37.5°	14712.6	14618.8	14225.1	13550.1	12829.6	11905.6	11458.3	11919.0	11932.4	12039.5
40°	15979.5	16019.7	15749.1	15226.8	14608.1	13598.4	12738.6	12939.5	12859.1	13038.6
42.5°	17066.9	17147.3	16911.6	16649.1	16290.2	15400.9	14324.2	14289.4	14160.8	14257.2
45°	18007.0	18074.0	17862.4	17800.8	17792.8	17168.7	16057.1	15848.2	15668.8	15650.0
47.5°	18352.6	18481.1	18572.2	18778.4	19180.2	18917.7	17849.0	17524.9	17324.0	17176.7
50°	18483.8	18620.4	18931.1	19531.1	20481.9	20594.4	19632.8	19268.6	19022.2	18754.3
52.5°	18307.0	18550.8	18968.6	19978.4	21357.8	21939.0	21344.4	21025.6	20744.4	20307.8
55°	17265.1	17508.9	18363.3	19973.0	21794.3	22881.8	22962.1	22820.2	22504.1	21815.8
57.5°	15068.8	15430.4	16783.0	19292.7	21786.3	23693.3	24547.8	24649.5	24296.0	23310.3
60°	12026.1	12516.3	14166.2	17784.7	21114.0	24132.6	25937.9	26446.8	26071.8	24783.5
62.5°	8391.5	8959.3	10520.8	15422.4	19576.6	23816.5	26953.0	27893.1	27609.2	26101.2
65°	5118.5	5300.6	6559.5	12135.9	16962.5	22493.4	27266.4	28675.2	28581.5	26907.4
67.5°	3409.6	3562.3	3923.9	8321.9	13167.1	19849.8	26516.4	28538.6	28565.4	26776.2
70°	2054.4	2185.6	2421.3	4839.9	8533.5	15711.6	24194.2	26797.6	26953.0	25021.8
72.5°	846.4	934.8	1149.0	2193.6	4419.4	9971.8	19265.9	23007.7	23369.2	21039.0
75°	479.4	525.0	675.0	1100.8	1917.8	4647.1	11669.9	16333.0	16866.0	14501.0
77.5°	318.7	340.2	436.6	712.5	1079.4	1585.6	4987.2	8509.4	9527.2	7920.1
80°	214.3	233.0	300.0	476.8	701.7	680.3	1588.3	3152.5	3878.4	2721.3
82.5°	144.6	147.3	214.3	313.4	444.6	329.4	468.7	980.3	1232.1	787.5
85°	83.0	80.4	158.0	182.1	198.2	136.6	142.0	294.6	385.7	332.1
87.5°	10.7	16.1	61.6	48.2	26.8	29.5	29.5	50.9	75.0	80.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4647.1	0°	4647.1	4647.1	4647.1	4647.1	4647.1	4647.1	4647.1	4647.1	4647.1	4647.1
4652.4	2.5°	4652.4	4649.7	4641.7	4633.7	4614.9	4604.2	4609.6	4604.2	4601.5	4604.2
4687.2	5°	4687.2	4679.2	4657.8	4631.0	4593.5	4548.0	4518.5	4475.6	4435.5	4411.4
4781.0	7.5°	4781.0	4773.0	4743.5	4668.5	4548.0	4357.8	4183.7	4031.0	3915.9	3848.9
4931.0	10°	4931.0	4917.6	4872.1	4706.0	4389.9	3974.8	3629.3	3342.7	3155.2	3066.8
5107.8	12.5°	5107.8	5091.7	5011.3	4671.2	4090.0	3441.8	2965.0	2646.3	2472.2	2394.5
5311.3	15°	5316.7	5295.2	5137.2	4505.1	3653.4	2852.5	2415.9	2177.6	2065.1	1995.4
5571.1	17.5°	5576.5	5539.0	5231.0	4256.0	3179.3	2402.5	2078.5	1899.0	1799.9	1732.9
5911.3	20°	5914.0	5852.4	5306.0	3958.7	2742.7	2118.6	1850.8	1700.8	1625.8	1566.9
6393.4	22.5°	6385.4	6297.0	5397.0	3637.3	2434.7	1923.1	1682.1	1572.2	1510.6	1443.7
7065.7	25°	6969.3	6864.8	5509.5	3340.0	2223.1	1754.4	1558.8	1467.8	1395.5	1317.8
7946.9	27.5°	7786.2	7598.7	5643.4	3096.3	2041.0	1609.7	1446.3	1344.6	1261.5	1197.3
8945.9	30°	8696.8	8388.8	5761.3	2948.9	1874.9	1475.8	1299.0	1197.3	1119.6	1074.0
9843.2	32.5°	9559.3	9141.5	5839.0	2884.7	1724.9	1323.1	1138.3	1028.5	969.6	956.2
10721.7	35°	10373.5	9821.8	5830.9	2823.1	1591.0	1170.5	980.3	867.8	822.3	830.3
11667.2	37.5°	11311.0	10547.6	5774.7	2726.6	1481.2	1031.2	843.7	744.6	704.4	707.1
12816.3	40°	12401.1	11386.0	5739.9	2544.5	1360.6	902.6	731.2	650.9	621.4	610.7
14026.9	42.5°	13563.5	12197.5	5745.2	2338.3	1210.6	787.5	653.5	586.6	559.8	551.8
15374.2	45°	14731.3	12971.6	5753.3	2124.0	1052.6	699.1	597.3	541.0	525.0	514.3
16740.1	47.5°	15829.5	13630.5	5603.3	1893.6	897.3	632.1	551.8	514.3	500.9	487.5
18111.5	50°	16852.6	14069.8	5241.7	1625.8	774.1	578.5	516.9	490.2	476.8	463.4
19354.3	52.5°	17648.1	14139.4	4644.4	1349.9	688.4	538.4	495.5	471.4	455.3	441.9
20358.7	55°	18001.7	13702.8	3795.3	1092.8	621.4	503.5	474.1	450.0	431.2	417.8
21148.8	57.5°	17910.6	12784.1	2959.7	878.5	557.1	468.7	447.3	431.2	409.8	388.4
21789.0	60°	17463.3	11554.7	2231.1	731.2	498.2	431.2	417.8	404.4	375.0	342.8
22035.4	62.5°	16689.3	10009.3	1591.0	605.3	433.9	388.4	383.0	372.3	329.4	270.5
21671.1	65°	15505.4	8131.7	1071.4	503.5	372.3	340.2	342.8	324.1	267.8	200.9
20337.3	67.5°	13775.1	5946.1	685.7	412.5	310.7	283.9	286.6	275.9	227.7	171.4
17808.8	70°	11570.8	3937.3	447.3	313.4	249.1	219.6	235.7	238.4	192.8	139.3
13668.0	72.5°	8482.6	2324.9	313.4	233.0	182.1	152.7	192.8	198.2	155.3	104.5
8222.8	75°	4834.6	1103.5	235.7	168.7	112.5	107.1	150.0	150.0	107.1	69.6
3559.6	77.5°	2030.2	460.7	166.1	109.8	64.3	61.6	101.8	93.7	53.6	32.1
867.8	80°	586.6	206.2	88.4	53.6	26.8	24.1	40.2	29.5	13.4	5.4
329.4	82.5°	230.3	91.1	34.8	21.4	10.7	10.7	5.4	0.0	0.0	0.0
187.5	85°	136.6	37.5	16.1	8.0	2.7	0.0	0.0	0.0	0.0	0.0
40.2	87.5°	34.8	8.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
4647.1
4614.9
4416.7
3851.6
3058.8
2386.5
1998.1
1727.6
1556.2
1433.0
1309.7
1183.9
1066.0
964.2
830.3
717.8
608.0
549.1
514.3
487.5
463.4
439.3
415.2
385.7
337.5
265.2
195.5
163.4
133.9
99.1
64.3
32.1
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